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To: [REDACTED]

cc:

Subject: Pentagon Air Sampling

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[REDACTED] Attached are a number of files in Microsoft Word and Excel. I'll also send another e-mail with the results from the "whole air samples" as collected in evacuated 6-liter canisters (electropolished Summa canisters).

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- TEDSREPORT.DOC



- PENTAGONPM25RESULTS.DOC



- PENTAGON SAMPLING.DOC



- 2001ARLINGTONPM2.5.XLS

## **Summary: Air Pollution Levels Detected at Washington DC Area Monitoring Stations During Pentagon Fire September 11 and 12, 2001.**

Hourly average air pollution monitoring data from all air monitoring stations the Washington area showed only typical low levels of pollution during September 11 and 12. A review of wind speed and wind direction level indicates that for many hours during these two days existing monitoring stations were in locations where pollution from the Pentagon fire would have been detected. For detection the pollution would have to be at ground level for a few minutes at the air monitoring station..

### **Observations About Wind Speed and Wind Direction and Monitoring Station Location.**

On September 11 from early morning until 10 PM the wind speed ranged from 4 to 9 miles which indicates a day when pollution levels would be low. The wind direction during this period was from the north to north-north-west. Two Virginia monitoring stations, Aurora Hills, site number 51-013-0020, which is 0.75 miles south of the Pentagon and Alexandria, site number 51-054-009, which is 8 miles south of the Pentagon, had the potential to show the impact from the fire, but only typical low pollution levels were detected. Similar levels were detected at other monitoring stations in the general area.

On September 11 around 10 PM the winds shifted slightly to come from the north-northeast and wind speeds lowered somewhat to 3 to 6 miles per hour. This wind direction persisted until 4 PM on September 12. The two Virginia sites still have a reasonable likelihood of detecting pollution from the fire.

Around 4 PM on September 12 the winds shifted to come from the south east for the remainder of the day. Unfortunately, with this wind direction no monitoring stations are located in the area that have a likelihood of detecting pollution from the fire.

### **The Attached Data and Map**

The map below shows the important monitoring stations in the Washington area relative to the Pentagon. Also below are data tables for measurements collected at the two Virginia stations discussed above and two stations within the District of Columbia. The District stations are McMillan Reservoir, site number 11-001-0043, and River Terrace, site number 11-0010041.